An Essay

## Phthisis Pulmonalis.

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1

Phthisis Pulmonalis When we look around through society and see the momense number who are affected with this disease our wonder is that people are so perfectly indiffere ent toits ravages, but then it is the nature of the human mind to become heedless of danger which is always present no matter how great Amay be. From its diffusion through all classes and its almost inversally fatal termination, it has become the dread, I had almost said the reproach, of physicians, and the cause of the invention of numberless patent medicines which the fublic grash as with avidity from the acknowledged insufficiency of the regular practice to stay this fearful disease which streps the earth of some of its best and fairest; indeed, it

seems to be in wait for these with unwonted vigilance and never to relinquish its hold tell its victim is secure in death.

Tubercles, which have always been regarded as the peculiar characteristic of this disease, consist in the deposition or formation from the blood of an unorganized, cheesy substance, of a yellow or yellowish grey color, always by freference on the free surface of the mucous membrane though they may be found in almost, if not quite, every organ and time of the body. Their frequency in different organs defends whom the age of the fratient. Thus in infants they are most frequent in the bram in that form of disease known as acute hydrocephalies; in children, in the glands, on the surface of the serous membranes,

or in the cancellated structure of the vertebra and heads of the long bones, while in adults, there frincipal seat is the lungs. According to some authorities, one sifth of the whole human raceperish by it in some of its various forms. After puberty the age most obnoxious to it is between twenty and therty while, according to Dr. Saparoine, three fifths of all the deaths before the age of puberty are the result of tuberculosis. It also apfrears that women are more prone to it than men. It has been a question, whether this tubercular matter is deposited as something entirely new or foreign to the blood, or is owing touts improper elaboration? Most pathologists have adopt ed the latter opinion, considering it to be a kind funnatural lymph, but. Dr. Gregg of Buffalo, considers tubercles

to be simply a quantity of the redblood corpuscles deposited, it may be, on the abraded surface of the mucous membrane, which having been defined of their colorning matter and some water, assume this freculear character. If this theory be correct then why do we not have tubereles formed in every case of inflammation where blood has been effused and during the progress of resolution this becomes defined by the absorbents of these same ingredients, which are known to be the first that are removed? Farnot say this is not the case, but, if it is, then tubercles are not characteristic of fehthises or of the strumous diathesis. This brings us to the consideration of another question in the pathology of this affection, which is; whether tubereles are the cause or the result of

inflammatory action? This would also seem to be very easy of solution if we accept this same theory of Dr. Gregg's. As has been stated, they may be deporited on the inflamed mucous membrane, when they are certarally the result of this action; then we may have the blood corpuscles deposited in the minute capillaries from being in excess in the blood, and where by constant accretion the mass may become so large as to act as an irritating foreign body thus producing inflammation. Now if their excess may depend whom anything else than inflammatory action, by which the more fluid parts are effused, then they may certainly be both the cause and the result; but if their excess is not defrending on anything else, then they. can be only the result.

The causes may be set down in general as anything that tends to weaken or depress the vital powers, and are as numerous, therefore, as the causes of debility. More definitely, they are want of fure air or exercise, insufficient amount or surproper hand of food, too great men tal labor and the deprivation of the natural amount of rest or elect. Also the constant breathing of an atmosphere which is filled with fine particles of an writating nature; but all of these mush be long continued and not so severe as to destroy life by their direct effect. It has also been observed that the sudden suffression of any habitual discharge may at least hasten its development. The suffression of cutameous eruptions, which, following the law observed in all cases of metastasis of attacking that

organ or tissue most resembling the one it left, developes an inflammation in the mucous membrane of the lunge which, as has been previouely stated, is the most favorite seat of tubercles From this we might justly infer the danger of local applications for the cure of any class of diseases affecting the skin or, its counterpart, the mucous membrane. It might be asked, may not all these conditions, which have been mentioned as causes, be simply those most favorable to its development and only bring It on in such persons as are predisposed to its attacks by some freculiar taint in the system? But as there must, of necessity, have been some first cause, it is natural to suppose, that what hastens its inroads in such as are firedisposed, might also be the direct cause in such as have no ench taint,

The one great cause of its prevalence is to be found in the fact that it is transmissable from parent to child and it is extremely rare, that any person born of parents having this strumous diatherie is not himself predisposed to it, and quite as rare, that any one, having this taint, ever gets even so clear of it as that his children will not wheret it. This fact of its hereditary transmission proves it to be preimment. by a constitutional affection, which has its influence in forming the very undividuality of the fratient. The essential character is not displayed in its mere physical phenomena but in a derangement of the vital forces. Throughe argued, that this is extremely vague and a very comfortable cloake behind which to hide our ignorance

but then there are things, which, in our present state of knowledge, we cannot know. Thus, what is vital force or what is life? The may know, to a certain extent, what well support and what well destroy lefe, but let him who can , distinctly define it. And let me ask, how can a parent transmit to his child anything Jurely Johnsonal, even admitting, which we do not, that in impregnation, the semen enters the ovule in substance and that, by their growth and development, the child is formed. Does not this rather prove that every particle, every minutest cell of that frarent's organism is affected by the disease, and if so, then also his mind, for this controls directly the development of the physical? But, in our school, this is a useless odistinction or rather, none

at all, where all are constitutional. Take even framary syphilis, considered by most to be furely local, and how do you account for the fact, that, from the moculation with the virus of a Hunterian chancre having an ulser of almost any form or character, may be developed a soft chance, having an entirely different appearance, if it is not already impressed with the individuality of the patient, which could only be the case after it has ween recognized and its action whom the system modified by the vital force, unless, furchance, you hold that the hart itself may impress upon it the undividuality of the entire person. Inthesis proper is divided intolwo forms, acute and chrome. The latter is much the more common and is essentially that which is generally known

as consumption. It sets in generally with a short and continuous cough and troublesome feeling of lassitude with frequently an acceleration of the circulation. Then we have loss of appetite and course quent wasting, which eventually becomes extreme, but the intellect remains unaftered or it may seem to be unusually bught, expecially the imagination. Afterwards, we have dysproca, then heotic fever with its debilitating night sweats and deceptive blush on the cheeks, also colliquative diarrhoea, when death soon closes the scene. The cough at first is mostly dry, but as the disease firogresses an expectoration of frothy mucous sets in, which, as a general thing, is the more frothy as it is more difficult to detach. The sputa becomes thecker, often greenish, or it may be in the form of round masses which retain their shape and is known as minmular or money like efuita, and which is a characteristic expectoration of phthuses, although it is not confined to this diseasy neither is it always present. Cowards the close, the sputa becomes of a dirty, greyish, fourtent appearance, containing pus cells, fragmente of lung tissue, and tubercular matter, which, when definitely recognized, settles conclusively the diagnosis The dysproca becomes gradually more and more marked as the lungs become filled with the tubercular deposit, or soledified by exudation, thus rendering useless a great many of the air cells or muterampeations of the bronche. This causes not only difficulty, but also, very great acceleration of the breathing. There symptoms may continue almost

any length of time without apparently much change, but, sooner or later, more dangerous or at least more ommous, symptoms set in and we have a fataltermination. The diarrhoed may set mearlier in the disease from the deposition of tubercular matter in the glands of the small intestines or eacun, which by destroying the frower of the lasteds to take who the nutriment from the food, tends the more rapidly to destroy the fratient by depriving him of the means of sustaining life. The signs of approach mg dissolution are as various as its causes, which may be an attack of acute felitheses, fineumonia, inflammation of the intestines or brain, rupture of an artery on the lungs by sloughing, or perforation of the fileura by which fluid or are is allowed to enter the fileural

sac causing collapse of the lung. When, as is usually the case, adhesion has taken place between the pulmonary and costal fileura no such results follow herforation. By some authors it is divided into three stages: that of commencing deposition, that I still greater deposition causing consolidation and that of softening and the formation of cavities, but they may all coëpst in different portions of the lungs. The first stage may exist and the fiatient be unconscious of any trouble. and it may last for years, tell the second stage sets in when it may run on to a fatal termination without any cessa trow in the violence of its symptome. In the third stage there is inflammation which goes on to suffuration, and the fue is discharged into the broughtal tubes

and may be thrown out of the system withe act of coughing, thus leaving carities or, as they are technically called, vormes, The bloodvessels of the parts in which these are seated, are obliterated by the coaquilation of the blood within them and, as they very rarely ulcerate, they remain as fibrous cords traversing the cavity. Warely, they slough off before obliterated, thus giving rise to fatal hamorrhage. The inflammation also causes equidation of plastic lymphon the surface of the feleura, which becoming organized prevente trouble we cases of perforation. Thus we see how nature quards, in her rude way, the life of the patient, by choosing the least of two evils, if we could admit her to be capable of a choice in any case. This not always that a case goes on constantly from bad to rorse, and we may

have notat is called the retrogressive type, in which the tubercles, after having been formed, seem to take on the calcareous or chalky degeneration, becoming dry, shreeled and hard, some of which may be discharged with the expectoration and others remain in the lungs smiftly as foreight bodies by becoming encysted. The second or acute form of phthisis frequently follows other deseases or it may be brought on by the same causes as the Chrome form only acting with greater intensity. In this, even more planly than me the other, can we see that it is a constitutional affection, of which the lung trouble is only a local indication. Infrequently commences with a chill followed by fever. Very soon hectic fever developes itself, together with very debelitating night sweats and great emaciation.

The great restlessness and prostration with frequent delirium causes it to resemble closely typhord fever, especcally when the extension of the tuber color deposit to the intestines, causes diarrhea and the other abdominal symptoms of the latter complaint. The differential diagnosis is founded on the thoracio disturbance, where we have cough with coprous effectoration, sometimes of bright blood, and rapid breathing. It sometimes resembles acute brouchitis or preumonia, even so closely as to render the diagnosis extremely difficult, if not absolutely impossible. The principal symptoms by which we may distinguish it from bronchitis are, that the stein is less hot, the breathing more rapid, therales more audible at the lower part of the chest and the emaciation is more rapid in phthisis.

This form is generally very rapidly fatal, terminating sometimes in less than a fortnight, from which fact it is commonly known as gallofing consumption. The prognoses of this, as well as of the chronic form, has been universally considered very unfavorable, some even holding that it is always fatal. May the time soon come, when by strict adherence to the great law of cure and the continmed developement of the powers which are inherent in our system, we may be able to entirely change the record in regard to both the acute and chronic form and have puttuses as amenable to treatment as any other deep seated and dereditary affection.